Abstract

In the recent times, most organizations in the world have increasingly realized the importance of cloud platforms. Cloud computing is an emerging technology to store and access personal data along with business information from remote locations. One of the benefits of using cloud computing is the ability to tap into huge quantities of both structured and unstructured data. With every new technology there are certain drawbacks associated with it and cloud is no exception. Unlike others, Cloud environment also faces challenges such as Distributed denial of service (DDoS) attacks, data thefts, particularly when they are insider attacks. Increase in the number of DDoS attacks is one of the latest issues. We have studied various intrusion detection techniques that includes Cloud trace back model, use of back propagation neural network and Virtual Intrusion Detection Systems (V-IDS). Now these attacks can be prevented using the proposed Intrusion Prevention System i.e. Service-based Intrusion Prevention System in Cloud Computing (SIPSCC). A technique called fog computing can be used to detect and prevent data theft attacks by malicious insiders is studied.
References

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Index Terms

Computer Science Security

Keywords